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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/915,404	07/27/2001	Pierre Sauvage	50002136-2	7097
7590 10/04/2004		EXAMINER		
John W. Ryan			TANG, KENNETH	
c/o Wilmer, Cutler & Pickering 2445 M Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20037-1420			2127	
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Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)
	09/915,404	SAUVAGE, PIERRE
Office Action Summary	Examiner	Art Unit
<u> </u>	Kenneth Tang	2127
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	uth the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communical if the period for reply specified above is less than thirty (30) do if NO period for reply specified above, the maximum statute Failure to reply within the set or extended period for reply within the set or extended period	ATION. FOR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thi orry period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed of the communication (s) filed of the commun	☑ This action is non-final. r allowance except for formal ma	
Disposition of Claims		
4) Claim(s) 1-6 and 8-14 is/are pending ir 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 8-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the control of the contro	a) accepted or b) objected to on to the drawing(s) be held in abeya ne correction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do	ocuments have been received. Ocuments have been received in the priority documents have bee all Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 7/27/01.	D-948) Paper No	Summary (PTO-413) b(s)/Mail Date Informal Patent Application (PTO-152)

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DETAILED ACTION

1. Claims 1-6, and 8-14 are presented for examination. Claim 7 has been omitted by the Applicant.

Claim Objections

2. Claim 7 is missing or claims 8-14 have been misnumbered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:
 - a. In claims 1 and 9, "storage facilities" is indefinite because it is not made explicitly clear whether this term refers to the library (Fig. 1, 7) or the shared memory (Fig. 1, 9 and 11) or both, or neither.
 - b. In claims 1 and 9, "allowed work unit rate" is indefinite because it is not made explicitly clear in the claim language what this "allowed work unit rate" allows for and it is not clear what the rate consists of.
 - c. In claims 2-3 and 11-12, "repeatedly" is indefinite because it is not made explicitly clear in the claim language how often is repeatedly or whether this refers to dynamically.

- d. In claim 9, "the mechanism" is indefinite because it is not made explicitly clear in the claim language what the mechanism is referring to.
- 4. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are:
 - a. In claim 1, there is no structural relationship established between the "storage facilities that do not rely on the functioning of processes" (line 5) and the "controlling the use of resources" (line 11).
 - b. In claim 1, there is no structural relationship established between the "allowed work unit rate" (line 8) and the "at least one parameter" (line 9). If the parameters are indeed for the allowed work unit rate, it is not made explicitly clear in the claim language whether there is at least one allowed work unit rate.
 - c. Claim 9 is rejected for the same reasons as stated in the rejection of claim 1 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 2. Claims 1-6, and 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman et al. (hereinafter Freeman) (US 6,785,726 B1) in view of Chintalapati et al. (hereinafter Chintalapati) (US 6,457,063 B1).
- 3. As to claim 1, Freeman teaches a method for controlling the use of a resource by at least one process in a data processing system with storage facilities that do not rely on the functioning of processes that use the mechanism (col. 41, lines 32-55, col. 45, lines 9-33), comprising the steps of:

providing a licence controller (license management subsystem 1110) (col. 45, line 28); communicating an allowed work unit rate (license management subsystem 1110 uses that information, together with the information indicating the total number of available pooled licenses it calculated at initialization to determine if a pooled license is available) (col. 45, lines 28-32, col. 41, lines 31-35) for the resource between the at least one process and the licence controller by storing at least one parameter in the storage facilities (col. 41, lines 32-55, col. 45, lines 9-33); and, in the at least one process, controlling the use of the resource by the process according to the parameter (col. 45, lines 28-42).

Freeman fails to explicitly teach having an inter-process communication mechanism. However, Chintalapati teaches dynamically controlling resources based on parameters with inter-process communication (col. 11, lines 64-67, col. 12, lines 1-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include dynamically controlling resources based on parameters with inter-process communication to the existing

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system of Freeman because it would increase the efficiency of control operations and improve the performance of computer systems by reducing the amount of time that services to resources are unavailable because of administrative functions (col. 2, lines 39-41 and 57-63).

- 4. As to claim 2, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Chintalapati teaches dynamically (repeatedly updating) controlling resources with interprocess communication (col. 11, lines 64-67, col. 12, lines 1-20).
- 5. As to claim 3, Chintalapati teaches wherein the step of communicating comprises having a process repeatedly read from its inter-process communication the parameter (col. 11, lines 64-67, col. 12, lines 1-20).
- 6. As to claim 4, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Freeman teaches having the licence controller read the actual use of the resource by the process (col. 41, lines 32-55, col. 45, lines 9-33).
- 7. As to claim 5, Freeman teaches wherein the step of controlling comprises, for the process, adapting (dynamic) its operation to the allowed work unit rate for the process (col. 41, lines 32-55, col. 45, lines 9-33).
- 8. As to claim 6, it is rejected for the same reasons as stated in the rejection of claim 1. In addition, Freeman teaches wherein the processes comprise a plurality of identical processes, and

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wherein the step of communicating comprises having the licence controller update the said identical processes while sharing use of the resource between said identical processes (col. 41, lines 33-55).

- 9. As to claim 8, Chintalapati teaches dynamically controlling resources with an interprocess communication mechanism but Freeman and Chintalapati fails to explicitly teach teaches wherein the processing system is a multiprocessing system. However, "Official Notice" is taken that both the concept and advantages of providing that an inter-process communication system being a multiprocessing system is well known and expected in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a multiprocessing system to the existing system because an inter-processing communication could not work without a multiprocessing system.
- 10. As to claim 9, it is rejected for the same reasons as stated in the rejection of claim 1.
- 11. As to claim 10, it is rejected for the same reasons as stated in the rejection of claim 1.
- 12. As to claim 11, it is rejected for the same reasons as stated in the rejection of claim 2.
- 13. As to claim 12, it is rejected for the same reasons as stated in the rejection of claim 3.

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14. As to claim 13, it is rejected for the same reasons as stated in the rejection of claim 6.

15. As to claim 14, it is rejected for the same reasons as stated in the rejection of claim 8.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 9/22/04

NIENG-AL PAN SORY PATENT EXAMINER